

12-19-03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Beechem, et al. )  
Serial No.: 10/666,291 ) Examiner: Not Yet Assigned  
Filed: September 17, 2003 ) Group Art Unit: Not Yet Assigned  
For: **Antibody Complexes and Methods** )  
**for Immunolabeling** ) **TRANSMITTAL LETTER**

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith are the following documents in the above-identified application.

- ☒ Information Disclosure Statement
- ☒ Substituted PTO Form 1449
- ☒ Cited References A1-A52, B1-B5 and C1-C13
- ☒ Return Postcard (Postage prepaid)

In the event that the Patent Office determines that these documents were not timely filed within the three-month deadline, the Commissioner is hereby authorized to charge the **Deposit Account 13-3900** for any fees due in connection with the filing of this document according to § 1.17(p).

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I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED AS BEING ATTACHED OR ENCLOSED HEREWITH ARE BEING DEPOSITED WITH THE UNITED STATES POSTAL OFFICE ON 12/17/2003 AS EXPRESS MAIL IN A BOX ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX ALEXANDRIA, VA 22313-1450.

By [Signature]

Beechem, et al.  
10/666,291

Respectfully submitted,

Date: 12/17/2003

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For: **Antibody Complexes and Methods  
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Examiner: Not Yet Known

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**INFORMATION DISCLOSURE  
STATEMENT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97(b) The Information Disclosure Statement being transmitted herewith is being filed before the mailing date of the first Office Action on the merits and within three months from filing of the above-identified application.

The enclosed references may be material to the examination of the above-identified application. Applicants, respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return the enclosed PTO-1449 form in accordance with MPEP §609.

This Information Disclosure Statement pursuant to 37 CFR 1.97 is not to be construed as a representation that: (1) a search has been made; (2) the above information constitutes prior art to the subject invention. Accordingly, it is requested that the Examiner consider the enclosed references.

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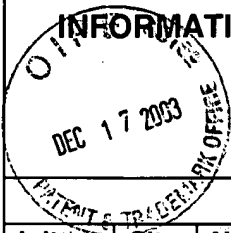
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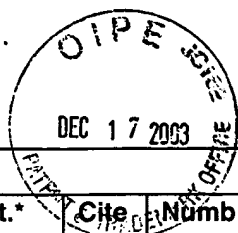
Substitute for form 1449/PTO

Docket:

Ser: 10/666,291

**INFORMATION DISCLOSURE STATEMENT****BY APPLICANT**Applicant: **B c hem, t al.**Filed: **September 17, 2003**Group: **Not Yet Assigned****U.S. PATENT DOCUMENTS**

Init.*	Cite No.	Number	Date	Name	Class	Sub	Filed
	A1	3,996,345	12/07/76	Ullman, et al.			
	A2	4,174,384	11/13/79	Ullman, et al.			
	A3	4,196,265	04/01/80	Koprowski, et al.			
	A4	4,199,559	04/22/80	Ullman, et al.			
	A5	4,261,968	04/14/81	Ullman, et al.			
	A6	4,384,042	05/17/83	Miike, et al.			
	A7	4,603,209	07/29/86	Tsien, et al.			
	A8	4,714,763	12/22/87	Theodoropoulos			
	A9	4,774,339	09/27/88	Haugland, et al.			
	A10	4,810,636	03/07/89	Corey			
	A11	4,812,409	03/14/89	Babb, et al.			
	A12	4,849,362	07/18/89	DeMarinis, et al.			
	A13	4,859,582	08/22/89	Stryer, et al.			
	A14	4,945,171	07/31/90	Haugland, et al.			
	A15	4,981,977	01/01/91	Southwick, et al.			
	A16	5,132,432	07/21/92	Haugland, et al.			
	A17	5,187,288	02/16/93	Kang, et al.			
	A18	5,229,302	07/20/93	Miyazaki, et al.			
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	A20	5,242,805	09/07/93	Naleway, et al.			
	A21	5,248,782	09/28/93	Haugland, et al.			
	A22	5,268,486	12/07/93	Waggoner, et al.			
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	A24	5,360,895	11/01/94	Hainfeld, et al.			
	A25	5,433,896	07/18/95	Kang, et al.			
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	A28	5,459,276	10/17/95	Kuhn, et al.			
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	A30	5,501,980	03/26/96	Katerinopoulos, et al.			
	A31	5,569,587	10/29/96	Waggoner			
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	A38	6,002,003	12/14/99	Shen, et al.			
	A39	6,004,536	12/21/99	Leung, et al.			
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	A41	6,043,025	03/28/00	Minden, et al.			
	A42	6,080,868	06/27/00	Lee, at al.			
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	A44	6,130,094	10/10/00	Waggoner, et al.			
	A45	6,133,445	10/17/00	Waggoner, et al.			



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	A47	6,229,055	05/08/01	Klaubert, et al.			
	A48	6,339,392	01/15/02	Ashihara			
	A49	6,348,596	02/19/02	Lee, et al.			
	A50	6,399,392	06/04/02	Haugland, et al.			
	A51	6,482,655	11/19/02	Wei, et al.			
	A52	6,541,618	04/01/03	Lee, et al.			

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Init.*	Cite No.	Number	Date	Country	Class	Sub	Filed
	B1	WO 97/40104	10/30/97	WIPO			
	B2	WO 99/51702	10/14/99	WIPO			
	B3	EP 1 065 250 A1	01/03/01	EPO			
	B4	WO 01/21624 A1	03/29/01	WIPO			
	B5	WO 02/26891 A1	04/04/02	WIPO			

### NON PATENT LITERATURE DOCUMENTS

Init.*	Cite No.	Name of Author, Title of the Article, Title of the Item, Date, Page, Volume-Issue Number
	C1	Gorevic, P. D., F. C. Prelli, et al. (1985). "Immunoglobulin G (IgG)." <u>Methods Enzymol</u> <b>116</b> : 3-25.
	C2	Tyagi, S. and F. R. Kramer (1996). "Molecular beacons: probes that fluoresce upon hybridization." <u>Nat Biotechnol</u> <b>14</b> (3): 303-8.
	C3	Tyagi, S., D. P. Bratu, et al. (1998). "Multicolor molecular beacons for allele discrimination." <u>Nat Biotechnol</u> <b>16</b> (1): 49-53.
	C4	New England BioLabs Inc. Product Literature
	C5	Wu, P. and L. Brand (1994). "Resonance energy transfer: methods and applications." <u>Anal Biochem</u> <b>218</b> (1): 1-13.
	C6	Haugland, R. P. (2002). <u>Handbook of Fluorescent Probes and Research Products</u> .
	C7	dos Remedios, C. G. and P. D. Moens (1995). "Fluorescence resonance energy transfer spectroscopy is a reliable "ruler" for measuring structural changes in proteins. Dispelling the problem of the unknown orientation factor." <u>J Struct Biol</u> <b>115</b> (2): 175-85.
	C8	Matayoshi, E. D., G. T. Wang, et al. (1990). "Novel fluorogenic substrates for assaying retroviral proteases by resonance energy transfer." <u>Science</u> <b>247</b> (4945): 954-8.
	C9	Wei, A. P., D. K. Blumenthal, et al. (1994). "Antibody-mediated fluorescence enhancement based on shifting the intramolecular dimer<-->monomer equilibrium of fluorescent dyes." <u>Anal Chem</u> <b>66</b> (9): 1500-6.
	C10	Ullman, E. F. and P. L. Khanna (1981). "Fluorescence excitation transfer immunoassay (FETI)." <u>Methods Enzymol</u> <b>74 Pt C</b> : 28-60.
	C11	Wei, A. P. and J. N. Herron (2002). "Bifluorophoric molecules as fluorescent beacons for antibody-antigen binding." <u>J Mol Recognit</u> <b>15</b> (5): 311-20.
	C12	Ullman, E. F., M. Schwarzberg, et al. (1976). "Fluorescent excitation transfer immunoassay. A general method for determination of antigens." <u>J Biol Chem</u> <b>251</b> (14): 4172-8.
	C13	Neuweiler, H., A. Schulz, et al. (2002). "Detection of individual p53-autoantibodies by using quenched peptide-based molecular probes." <u>Angew Chem Int Ed Engl</u> <b>41</b> (24): 4769-73.

EXAMINER:

DATE:

\*Examiner: Initial if considered, whether or not in conformance with MPEP 60; draw line through cite if not in conformance and not considered. Send copy.